RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/824,584_

Source: _1FWD_

Date Processed by STIC: _12/6/06_

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 12/06/2006
PATENT APPLICATION: US/10/824,584   TIME: 08:30:59

            Input Set : F:\20040117.ORI.txt
            Output Set: N:\CRF4\12062006\J824584.raw

```
 3 <110> APPLICANT: Imperial College Innovations Limited
 5 <120> TITLE OF INVENTION: Control of Gene Expression Using
 6       a Complex of an Oligonucleotide and a
 7       Regulatory Peptide
 9 <130> FILE REFERENCE: ICOY/P27203CA
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C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/824,584
C--> 11 <141> CURRENT FILING DATE: 2004-04-08
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11 <160> NUMBER OF SEQ ID NOS: 25
13 <170> SOFTWARE: PatentIN version 3.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 36
17 <212> TYPE: PRT
18 <213> ORGANISM: Artificial Sequence
20 <220> FEATURE:
21 <223> OTHER INFORMATION: SAP18 chromatin inactivation domain
23 <220> FEATURE:
24 <221> NAME/KEY: MISC_FEATURE
25 <222> LOCATION: (1)..(3)
26 <223> OTHER INFORMATION: AAA or DDD
28 <400> SEQUENCE: 1
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```
30 1               5                   10                  15
32 Lys Lys Glu Pro Glu Lys Pro Ile Asp Arg Glu Lys Thr Cys Pro
33                 20                  25                  30
35 Leu Leu Leu Arg Val Phe
36                 35
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 32
40 <212> TYPE: PRT
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: MAD1 chromatin inactivation domain
46 <220> FEATURE:
47 <221> NAME/KEY: MISC_FEATURE
48 <222> LOCATION: (1)..(3)
49 <223> OTHER INFORMATION: AAA or DDD
51 <400> SEQUENCE: 2
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53 1               5                   10                  15
55 Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser Met Leu Pro
56                 20                  25                  30
59 <210> SEQ ID NO: 3
60 <211> LENGTH: 16
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Input Set : F:\20040117.ORI.txt
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61 <212> TYPE: PRT
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Antennapedia homeodomain based Penetratins
67 <400> SEQUENCE: 3
68 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
69 1   5   10   15
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 15
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: TAT peptide
80 <220> FEATURE:
81 <221> NAME/KEY: MISC_FEATURE
82 <222> LOCATION: (1)..(1)
83 <223> OTHER INFORMATION: Cys-acetamidomethyl
85 <400> SEQUENCE: 4
86 Cys Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Cys
87 1   5   10   15
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 21
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: TFO Module 1 oligonucleotide
97 <400> SEQUENCE: 5
98 aaagtaaaag gggagagagg g   21
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 29
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence.
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Herpes Simplex Virus VP16 Transcriptional Activator protein
108 <400> SEQUENCE: 6
109 Gly Gly Gly Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu
110 1   5   10   15
112 Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu
113   20   25
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 55
117 <212> TYPE: PRT
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Herpes Simplex Virus VP16 Transcriptional Activator protein
123 <400> SEQUENCE: 7
124 Gly Gly Gly Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu
125 1   5   10   15
127 Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Pro Ala Asp

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```
128        20              25              30
130 Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Pro Ala Asp Ala Leu Asp
131        35              40              45
133 Asp Phe Asp Leu Asp Met Leu
134    50              55
136 <210> SEQ ID NO: 8
137 <211> LENGTH: 32
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Human MAD1 transcriptional repressor domain
144 <220> FEATURE:
145 <221> NAME/KEY: MISC_FEATURE
146 <222> LOCATION: (1)..(3)
147 <223> OTHER INFORMATION: AAA or DDD
149 <400> SEQUENCE: 8
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151 1          5              10              15
153 Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser Met Leu Pro
154        20              25              30
157 <210> SEQ ID NO: 9
158 <211> LENGTH: 36
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Human SAP18 polypeptide domain
165 <220> FEATURE:
166 <221> NAME/KEY: MISC_FEATURE
167 <222> LOCATION: (1)..(3)
168 <223> OTHER INFORMATION: AAA or DDD
170 <400> SEQUENCE: 9
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```
172 1          5              10              15
174 Lys Glu Pro Glu Lys Pro Ile Asp Arg Glu Lys Thr Cys Pro Leu Leu
175        20              25              30
177 Leu Arg Val Phe
178        35
180 <210> SEQ ID NO: 10
181 <211> LENGTH: 22
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Androgen receptor gene regulatory site primer 1
188 <400> SEQUENCE: 10
189 gggaaaggaa aagaggggag gg                                      22
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 21
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
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196 <220> FEATURE:
197 <223> OTHER INFORMATION: Androgen receptor gene regulatory site primer 2
199 <400> SEQUENCE: 11
200 gggaggggaa aggaaaagag g                                    21
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 18
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: ARP TFO
210 <220> FEATURE:
211 <221> NAME/KEY: MISC_FEATURE
212 <222> LOCATION: (2)..(2)
213 <223> OTHER INFORMATION: 2'-deoxy-6-thioguanine
215 <220> FEATURE:
216 <221> NAME/KEY: MISC_FEATURE
217 <222> LOCATION: (4)..(4)
218 <223> OTHER INFORMATION: 5-fluro-deoxyuracil
220 <220> FEATURE:
221 <221> NAME/KEY: MISC_FEATURE
222 <222> LOCATION: (9)..(9)
223 <223> OTHER INFORMATION: 2'-deoxy-6-thioguanine
225 <400> SEQUENCE: 12
226 gtguggtgtg gttgtgtt                                        18
228 <210> SEQ ID NO: 13
229 <211> LENGTH: 39
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: L217 peptide
236 <400> SEQUENCE: 13
237 His His His His His His Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg
238 1               5                   10                  15
240 Arg Met Lys Trp Lys Lys Asp Asp Asp Met Asn Ile Ala Met Leu Leu
241             20                  25                  30
243 Glu Ala Ala Asp Tyr Leu Glu
244         35
246 <210> SEQ ID NO: 14
247 <211> LENGTH: 54
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: L218 Peptide
254 <400> SEQUENCE: 14
255 His His His His His His Met Asn Ile Ala Met Leu Leu Glu Ala Ala
256 1               5                   10                  15
258 Asp Tyr Leu Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser
259             20                  25                  30
261 Met Leu Pro Asp Asp Asp Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg
```

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PATENT APPLICATION: US/10/824,584   TIME: 08:30:59

Input Set : F:\20040117.ORI.txt
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```
262       35                    40                   45
264 Arg Met Lys Trp Lys Lys
265    50
267 <210> SEQ ID NO: 15
268 <211> LENGTH: 21
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Human androgen receptor primer sense
275 <400> SEQUENCE: 15
276 tccagaatct gttccagagc g                                          21
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 19
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Human androgen receptor primer antisense
286 <400> SEQUENCE: 16
287 ttcggatact gcttcctgc                                             19
289 <210> SEQ ID NO: 17
290 <211> LENGTH: 18
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: IRE TFO
297 <220> FEATURE:
298 <221> NAME/KEY: MISC_FEATURE
299 <222> LOCATION: (4)..(4)
300 <223> OTHER INFORMATION: 5-fluro-deoxyuracil
302 <400> SEQUENCE: 17
303 ggguggtggg gttgtgtt                                              18
305 <210> SEQ ID NO: 18
306 <211> LENGTH: 54
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: L219 Peptide
313 <400> SEQUENCE: 18
314 Asp Asp Asp Met Asn Ile Ala Met Leu Leu Glu Ala Ala Asp Tyr Leu
315 1               5                   10                  15
317 Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser Met Leu Pro
318            20                  25                  30
320 His His His His His His Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg
321         35                  40                  45
323 Arg Met Lys Trp Lys Lys
324    50
326 <210> SEQ ID NO: 19
327 <211> LENGTH: 21
328 <212> TYPE: DNA
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/06/2006
PATENT APPLICATION: US/10/824,584   TIME: 08:31:00

Input Set : F:\20040117.ORI.txt
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3
Seq#:2; Xaa Pos. 1,2,3
Seq#:8; Xaa Pos. 1,2,3
Seq#:9; Xaa Pos. 1,2,3

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:12; Line(s) 226

VERIFICATION SUMMARY   DATE: 12/06/2006
PATENT APPLICATION: **US/10/824,584**   TIME: 08:31:00

Input Set : **F:\20040117.ORI.txt**
Output Set: **N:\CRF4\12062006\J824584.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0